

A GAT CTG GCC AGC GCC GTG GGC ATC CAG TCC GGC AGC ATC TTT CAT CAC TTC AAG AGC AAG
 ▶ D L A S A V G I Q S G S I F H H F K S K
 GAT GAG ATA TTG CGT GCC GTG ATG GAG GAA ACC ATC CAT TAC AAC ACC GCG ATG ATG CGC
 ▶ D E I L R A V M E E T I H Y N T A M M R
 GCT TCA CTG GAG GAG GCG AGC ACG GTG CGC GAA CGC GTG CTG GCG CTG ATC CGC TGC GAG
 ▶ A S L E E A S T V R E R V L A L I R C E
 TTG CAG TCG ATC ATG GGC GGC AGT GGC GAG GCC ATG GCG GTG CTG GTC TAC GAA TGG CGC
 ▶ L Q S I M G S G E A M A V L V Y E W R
 TCG CTG TCG GCC GAA GGC CAG GGC CAC GTG CTG GCC CTG CGT GAC GTG TAT GAG CAG ATC T
 ▶ S L S A E G Q A H V L A L R D V Y E Q I

FIG. 1A

AGATCTTGAGCGTCATGAGTGCCTGGGTACGCCCTTTCATGGGTCCGGGATCGAGAGTGGGTGT
 ▶ D L E R H E C L G Y A F S S R P A D R E W V
 R T R R I S L P H
 TTTTCAGGGCACGGTTTCCTACAAGGTACCGAGTGGCCAGGCCGTTGCTCATCAATGAAAGCGGGCA
 ▶ F F Q G T V S Y K V R V A S R L L I N E S R A
 ▶ K K L A R N G V L Y S H G A T Q E D I F A P C
 TTGATGTCGGCGGCATTGGATGGCATAGTGCCTGGCCAAAGACTTCCTGGAAACGGCGTT
 ▶ L M S A A L D G F G I V L G P Q D F L R T A L
 ▶ Q H R R C Q I T K A Y H E A R L V E Q S R R Q
 GGCAGTGGCGAGTTGGGTGGGGAGTTGGGCTCCGAGTGGCTGGATGCATTGGTCT
 ▶ A S G E L V R V L P E F E A P S R S M H L V
 ▶ R T A L Q H P H Q R L K L S R T P R H M Q D
 ACACCGAACCGCCAGCGTACCGCCAAGTGGCCTGCTGAGACTGTGCTGGGACGTTGGT
 ▶ Y T A N R Q R T A K L R C F V E T V L G R F G
 ▶ V G C V A L T G G L Q A A K D L S H Q S T K T
 CCGGTATGAAGGAGCACCCGTGGGTGCCGGGANGCACCTAAAGTCT
 ▶ P V
 ▶ R Y S P A G H R D G P - V

FIG. 1B

I-2	:	-----	D	:	1
Clostridium	:	-----MNKEKDNIFYSAIKVFSNNGYNGATMDE		:	28
Mycobacterium	:	-----MDRVAGOVSRRGEELLELAAAMFAERGLRAITVRD		:	35
Aquifex	:	MYI LLFMGEKRSDTKEKILSSA IKLFSKKGEKEITIKD		:	38

a f g t d

I-2	:	LASAVGIQSGS1FHHFKSKDEILRAVMEETIHYNTAMM		:	39
Clostridium	:	IASNAGVAKGTLYYHFKSKEEIFKYIIIEGVNLMKNET		:	66
Mycobacterium	:	IADGAGILSGSLYHHFASKEEMVDELLRGFLDWLFARY		:	73
Aquifex	:	IAKEVGITEGAIYRHFTSKEEIIKSLLESITKELRHKE		:	76

6A G6 G 65 HF SKE6 66e

I-2	:	RASIEEASIVRERVLATIRCEIQSIMGGSGEAMAVLVY		:	77
Clostridium	:	DEATDKEKTADEKLKAVCRVOLNLIVKNRDFEKVITASQ		:	104
Mycobacterium	:	RDIVDSTANPTEERLQGLFMASFEADEHHHAQVVVYQDE		:	111
Aquifex	:	EVALQRGTEIDEEILESIVDTLIDYAFSNPESERFLNY		:	114

t E 6 6 i

I-2	:	EWRSLSAEGQAHVLAIR--DVYEQI-----		:	100
Clostridium	:	LWGKELROLELRDIMRN--YVYHIEEVKDAWEAGSIK		:	140
Mycobacterium	:	AQRLASQPRFSYIEDRNKQQRKMWVDVLNQGIEEGYFR		:	149
Aquifex	:	HLLKEYGEVKNLPGEI--LKFLNGLYIKRKIKT---Y		:	147

I-2	:	-----		:	-
Clostridium	:	KGNSIFVAYAFLGTLCSVSIVYEVINAENDNINNTIENL		:	178
Mycobacterium	:	PDLIDVDIIVYREIRDITWVSVRWYRPGGPLTAQQVGOQY		:	187
Aquifex	:	PEIALAVVT--GSVERVFIIEKERNFLDYDEETIKKEL		:	182

V

I-2	:	-----	:	-
Clostridium	:	MNYI LLNGUGLON-	:	190
Mycobacterium	:	HAIVLGGITKEGV	:	200
Aquifex	:	KKV IKSAILA ---	:	192

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FIG. 2

Diagnosis	Tissue		N	N(+)	%Pos
CD	Ileum	Involved	46	25	54.3
	Colon	Involved	35	15	42.9
CD	Ileum	Uninvolved	14	6	42.9
	Colon	Uninvolved	26	5	19.2
UC	Colon	Involved	22	2	9.1
	Colon	Uninvolved	20	3	15.0
Ca	Colon	Uninvolved	15	2	13.3
	Ileum	Uninvolved	7	3	42.9
Divertic	Colon	Uninvolved	7	0	0.0
	Colon	Uninvolved	5	0	0.0
Append	Colon	Uninvolved	15	0	0.0
I-Col	Colon		212	61	
Total					

FIG. 3

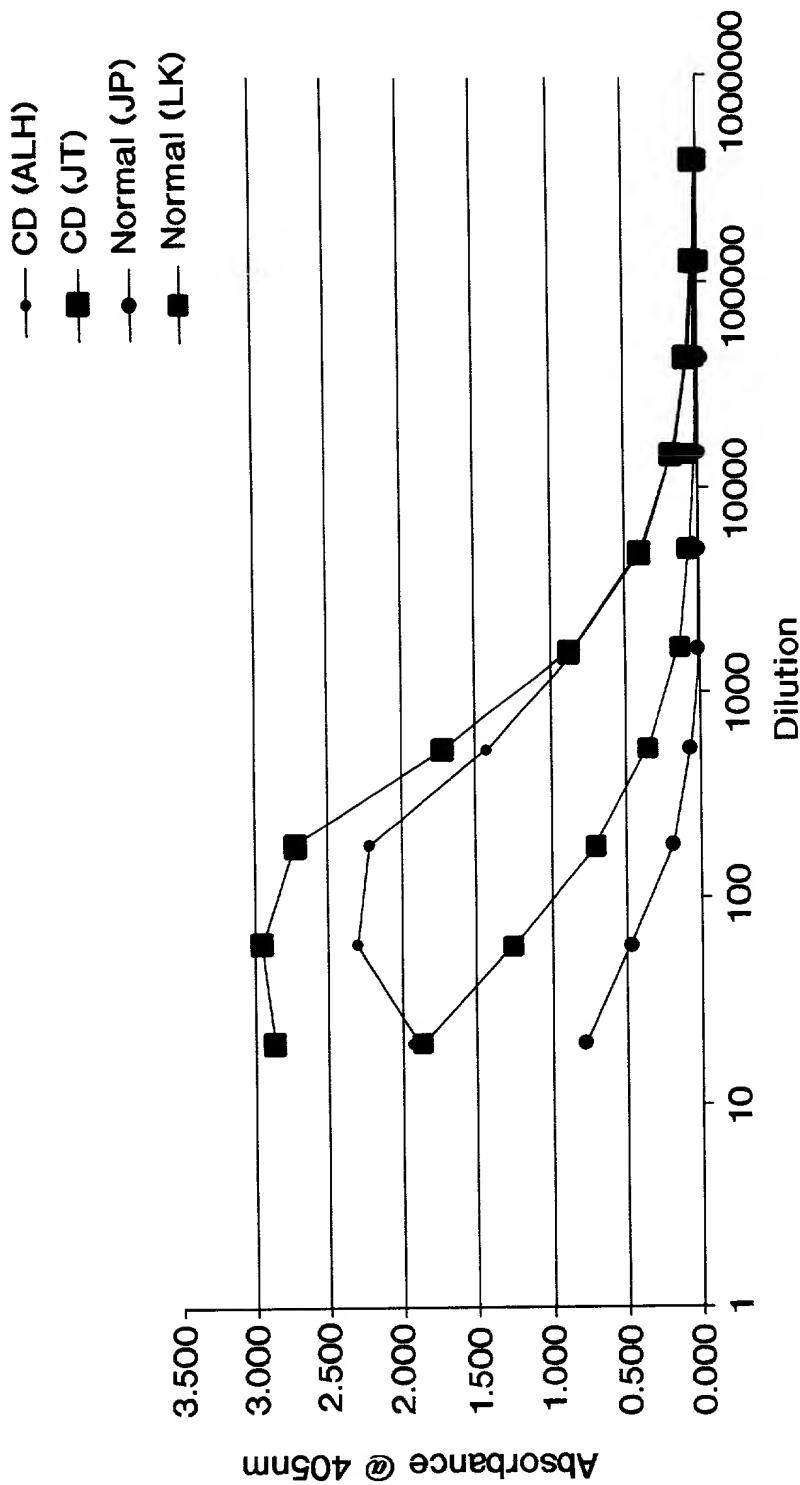


FIG. 4A

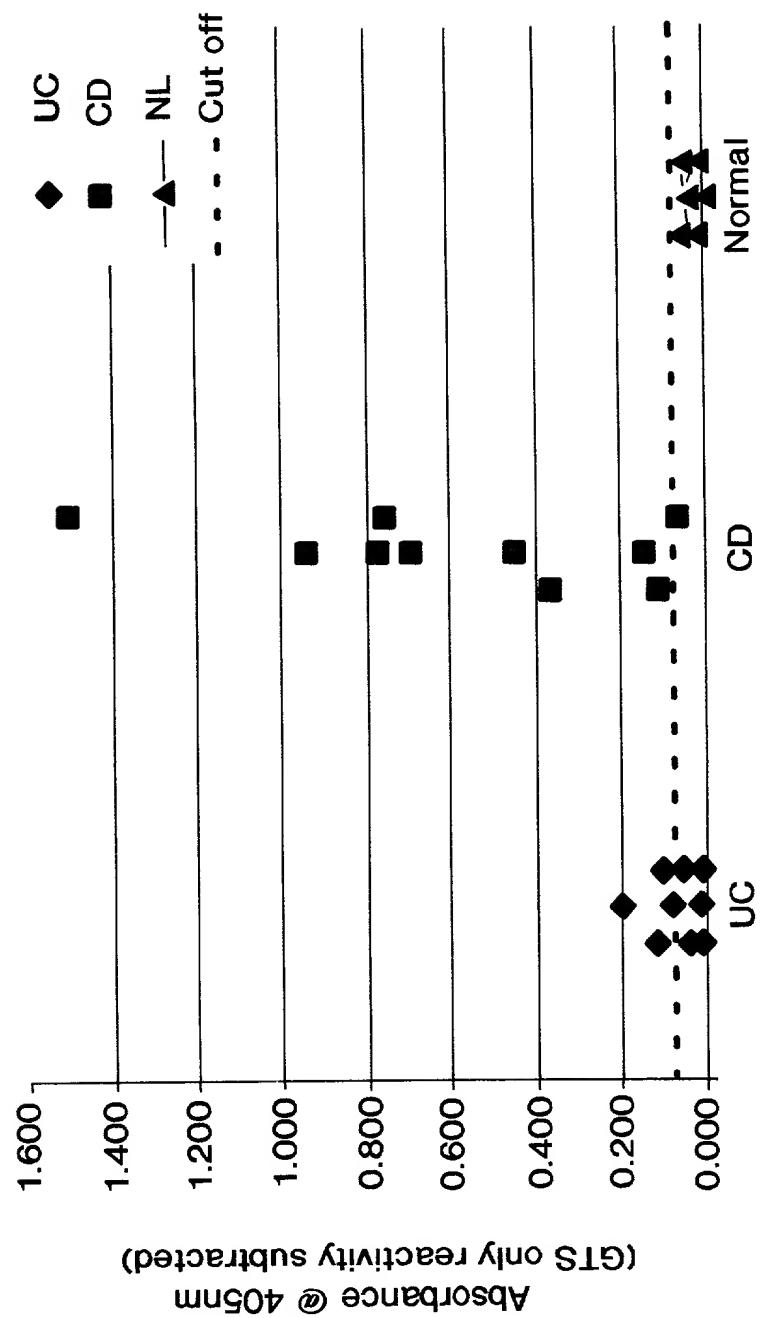


FIG. 4B

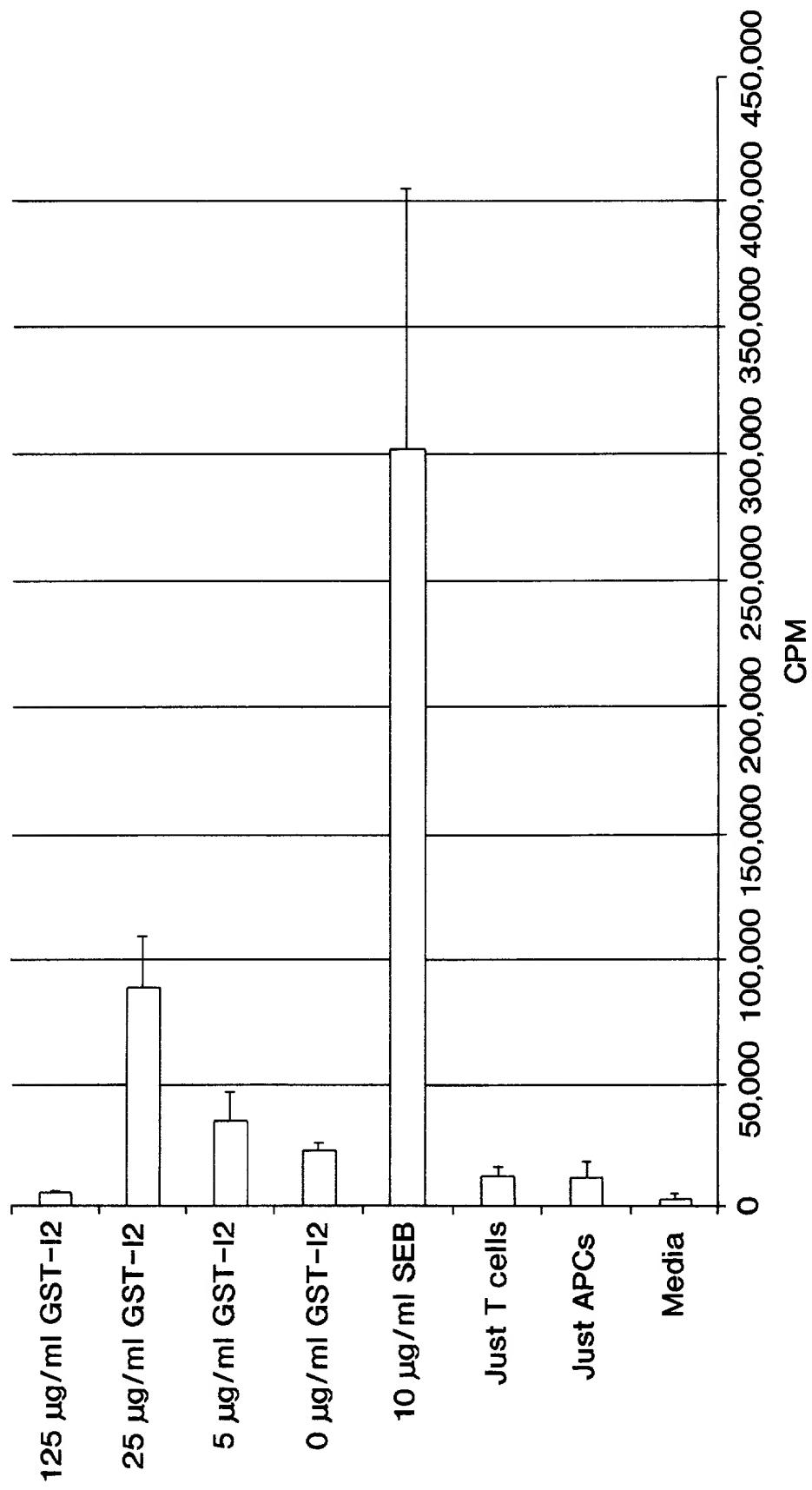


FIG. 5

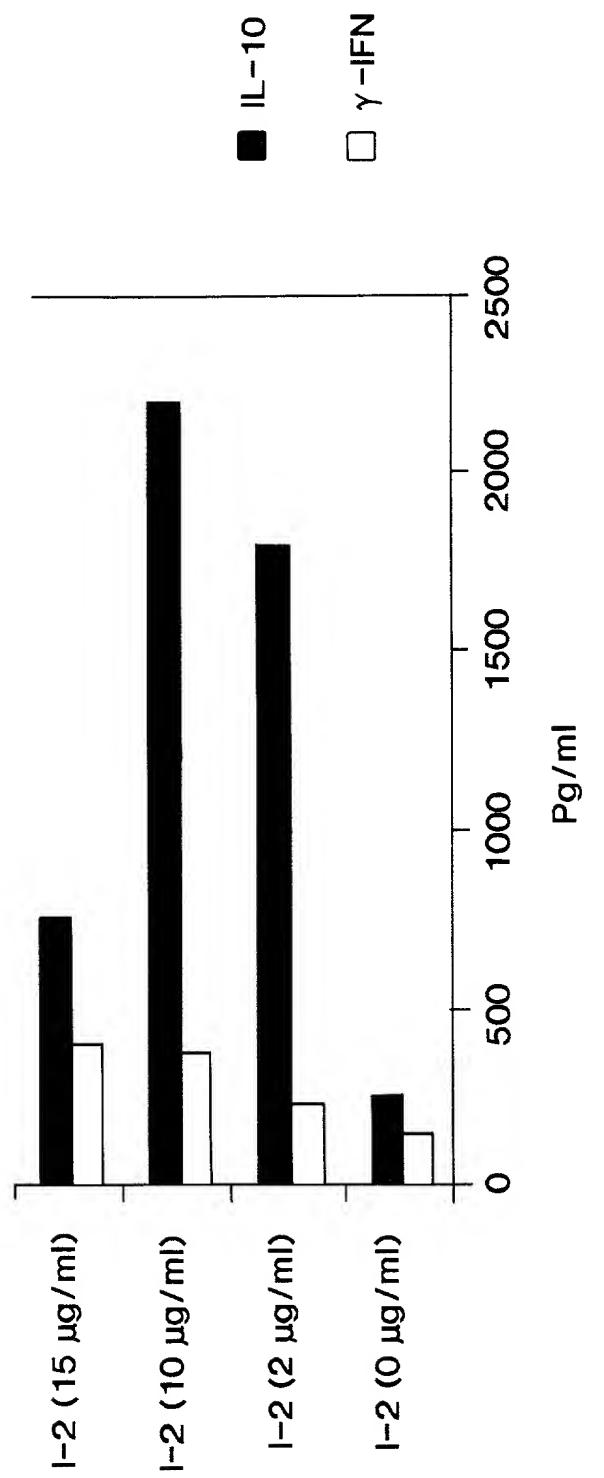


FIG. 6

Medium	Incubation	Organism
Trypticase soy agar	O ₂	Aerobes
McConkey	O ₂	<i>Enterobacteriae</i>
Sabouraud dextrose with Chloamphenical and gentamycin	O ₂	Yeast
Bile eculin agar	O ₂	<i>Enterococcus</i>
Chocolate	CO ₂	<i>Haemophilus</i>
CDC	An O ₂	Anaerobes
Brucella	An O ₂	Anaerobes
EYA+neomycin	An O ₂	<i>Clostridium</i>
EYA+heat treatment	An O ₂	<i>Clostridium</i>
CDC+heat treatments	An O ₂	<i>Clostridium</i>
CCFA+heat treatment	An O ₂	<i>C. difficile/Clostridium</i>
EYA+ethanol treatment	An O ₂	<i>Clostridium</i>
CDC+ethanol treatment	An O ₂	<i>Clostridium</i>
CCFA+ethanol treatment	An O ₂	<i>C. difficile/Clostridium</i>
BBE	An O ₂	BFG
LKV	An O ₂	Pigmenters
<i>Fusobacterium</i> selective medium	An O ₂	<i>Fusobacterium</i>
PEA	An O ₂	Gpc
CFA	An O ₂	<i>C. difficile</i>
LAMVAB	An O ₂	<i>Lactobacillus</i>
RB	An O ₂	<i>Bifidobacterium</i>
BBE+vancomycin	An O ₂	<i>Bilophila, Sutterella</i>
Modified BGSA for Camplyobacter	An O ₂ , 6%O ₂ (37C), 6%O ₂ (42C)	<i>Camplyobacter</i>
Campy CVA(CSL)	An O ₂ , 6%O ₂ (37C), 6%O ₂ (42C)	<i>Camplobacter</i>
Modified Skirrow	An O ₂ , 6%O ₂ (37C), 6%O ₂ (42C)	<i>Helicobacter pylori</i>

FIG. 7